

June 10, 2004

Louisville, MSA 8-Hr & 1-Hr Ozone Monitoring Report for 2000-2004

(Data are not quality assured)

Table 1: 2004 8-Hr and 1-Hr Ozone Monitoring Summary Report – March to June (to 9th)

- 8-hour exceedances - 0 exceedance with highest 78 ppb at BK (5/7/04) and NA (6/5/04)
- 1-hour exceedances - 0 exceedance with highest 89 ppb at BK (5/7/04) and BA(5/10/04)

| 8-Hour FCST / Max. ppb | 1-hr Exc | # of Day with 8-hr Exc | Date | Charlestown (CH) Clark County, IN | | New Albany (NA) Floyd County, IN | | Bates (BA) Jefferson County, KY | | Watson (WS) Jefferson County, KY | | WLKY-TV (WK) Jefferson County, KY | | Buckner (BK) Oldham County, KY | | Shepherdsville (SH) Bullitt County, KY | | # O A D |
|--|-------------|------------------------------------|----------------------------------|--|------------|---|------------|---------------------------------------|-------------------|--|------------|--|------------|--------------------------------------|------------------|---|------------|------------------|
| | | | | 8-hr | 1-hr | 8-hr | 1-hr | 8-hr | 1-hr | 8-hr | 1-hr | 8-hr | 1-hr | 8-hr | 1-hr | 8-hr | 1-hr | |
| | 0 | 0 | March, 04 Monthly Max. | N/A* | N/A* | N/A* | N/A* | 62 3/24 | 64 3/24 | 55 3/25 | 61 3/25 | 56 3/24 | 61 3/24 | 60 3/24 | 63 3/24 | 57 3/24 | 59 3/24 | 0 |
| | 0 | 0 | April, 04 Monthly Max. | 69 4/29 | 74 4/29 | 69 4/16 | 75 4/16 | 70 4/29 | 75 4/29 | 69 4/16 | 76 4/29 | 68 4/29 | 73 4/29 | 76 4/29 | 81 4/29 | 67 4/15 | 72 4/16 | 0 |
| | 0 | 0 | May, 04 Monthly Max. | 70 5/7 | 84 5/7 | 71 5/8 | 78 5/8 | 71 5/7 | <u>89</u> 5/10 | 71 5/7 | 77 5/7 | 66 5/7&5/8 | 79 5/7 | <u>78</u> 5/7 | <u>89</u> 5/7 | 63 5/7 | 73 5/7 | 0 |
| | 0 | 0 | June, 04 Peak thru 6/10/04 | 74 6/5 | 81 6/5 | <u>78</u> 6/5 | 85 6/5 | 66 6/5 & 6 | 70 6/5 | 66 6/6 | 71 6/5 | 72 6/5 | 80 6/5 | 68 6/6 | 72 6/6 | 59 6/5 | 68 6/2 | 0 |
| Total-0 days With 0 Exceed- ance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Notes: A 1-hour average of 125 ppb or greater exceeds the old ozone standard; an 8-hour average of 85 ppb or greater exceeds the new ozone standard. OAD: Ozone Action Day. FCST – Forecast. Bold – 8-hour or 1-hour observational/forecasted exceedances. Underlined – Louisville, MSA highest 1-hour and 8-hour readings. * The ozone season for Indiana is from April 1st to September 30th.

Table 2: Louisville 1996 – 2004 1-Hr Exceedance Summary

| Year | Charlestown | New Albany | Bates | Watson | WLKY-TV | Buckner | Shepherdsville | Total Exceedances For Louisville, MSA |
|-------------------|-------------|------------|-------|--------|---------|---------|----------------|---------------------------------------|
| 1996 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 3 |
| 1997 | 3 | 2 | 1 | 0 | 0 | 2 | 1 | 9 |
| 1998 | 3 | 2 | 2 | 1 | 1 | 1 | 0 | 10 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 2000 ¹ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 2002 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 |
| 2003 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

¹ Louisville, MSA achieved the 1-hour ozone standard

Table 3: Louisville 1998 – 2004 8-Hr Exceedance Summary

| Year | Charlestown | New Albany | Bates | Watson | WLKY-TV | Buckner | Shep. | Louisville MSA Total | | Jefferson County Total | |
|------|-------------|------------|-------|--------|---------|---------|-------|----------------------|------|------------------------|------|
| | | | | | | | | Exceedances | Days | Exceedances | Days |
| 1998 | 22 | 14 | 10 | 11 | 7 | 12 | 12 | 88 | 30 | 28 | 15 |
| 1999 | 11 | 10 | 16 | 13 | 4 | 34 | 11 | 99 | 44 | 33 | 22 |
| 2000 | 4 | 0 | 5 | 1 | 3 | 4 | 2 | 19 | 10 | 9 | 6 |
| 2001 | 4 | 0 | 2 | 1 | 1 | 4 | 2 | 14 | 10 | 4 | 3 |
| 2002 | 17 | 13 | 4 | 15 | 7 | 12 | 10 | 78 | 26 | 26 | 19 |
| 2003 | 4 | 4 | 1 | 0 | 0 | 2 | 0 | 11 | 7 | 1 | 1 |
| 2004 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 4: 8-Hr Ozone 4th Maximum and Design Values Summary

| Year | Louisville, MSA | Charles-town | New Albany | Bates | Watson | WLKY-TV | Buckner | Shepherds-ville |
|------------|-----------------|--------------|------------|-----------|--------|---------|------------|-----------------|
| 2004 | | | | | | | | |
| 2003 | 90 | 90 | 86 | 67 | 75 | 73 | 82 | 72 |
| 2002 | 100 | 100 | 97 | 85 | 96 | 88 | 91 | 91 |
| 2001 | 86 | 86 | 76 | 81 | 81 | 77 | 86 | 82 |
| 2000 | 90 | 85 | 77 | 90 | 76 | 84 | 85 | 82 |
| 1999 | 103 | 89 | 94 | 97 | 100 | 86 | 103 | 93 |
| 99-01 Avg. | 91 | 86 | 82 | 89 | 85 | 82 | 91 | 85 |
| 00-02 Avg. | 90 | 90 | 83 | 85 | 84 | 83 | 87 | 85 |
| 01-03 Avg. | 92 | 92 | 86 | 77 | 84 | 79 | 86 | 81 |
| 02-04 Avg. | | | | | | | | |

Bold – Design Value Sites for respective periods.

8-Hr NAAQS: Attainment of the 8-Hr Ozone National Ambient Air Quality Standard (NAAQS) at an individual monitor is achieved when the three-year average of the annual fourth-highest daily maximum (4th maximum) 8-hr average ozone concentrations is less than or equal to 84 ppb. This three-year average is the design value for that monitor.